

now

.....Adam W Chałupski

.....Architectural Design + Research

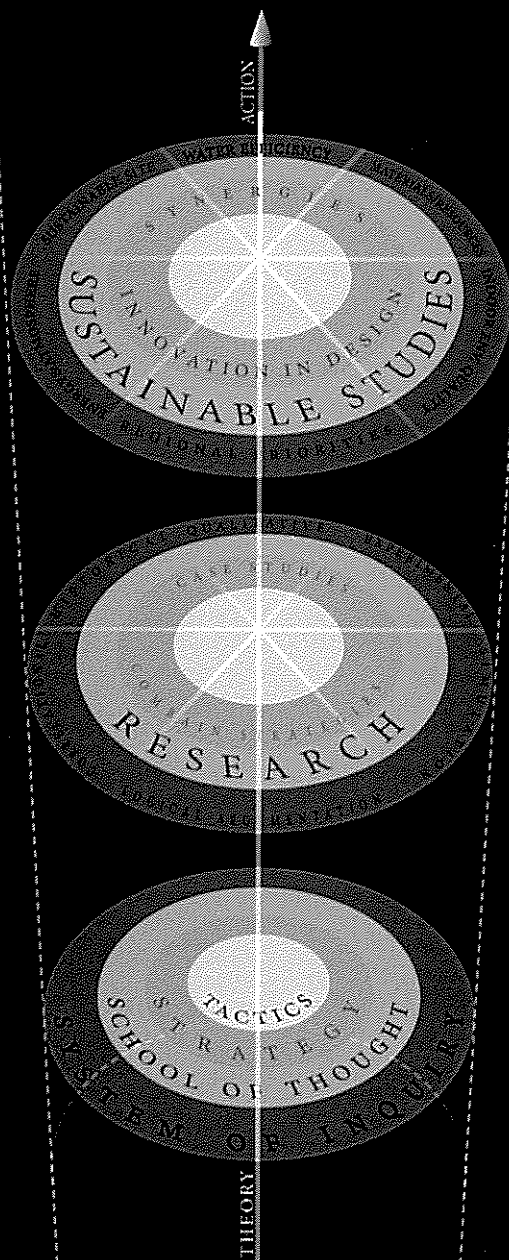
.....2004 - 2019

vol. 1:  
public buildings | high-risers |

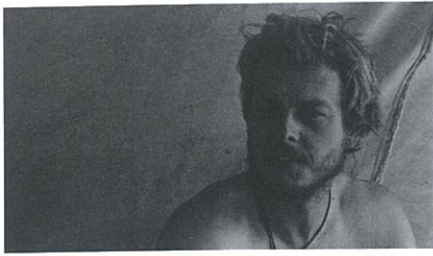
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CREATIVE PROCESS







ADAM W CHAŁUPSKI STUDIED ARCHITECTURE IN POLAND, SINCE 2005 HE HAS BEEN ASSOCIATED WITH VARIOUS COMPANIES AND EDUCATIONAL INSTITUTIONS IN EUROPE, ASIA AND AFRICA. HE IS THE AUTHOR OF BOOKS AND PUBLICATIONS RELATED TO ART, ARCHITECTURE AND TRAVEL. ADAM W CHAŁUPSKI STUDIED ARCHITECTURE IN POLAND, SINCE 2005 HE HAS BEEN ASSOCIATED WITH MANY COMPANIES AND EDUCATIONAL INSTITUTIONS IN EUROPE, ASIA AND AFRICA. HE IS THE AUTHOR OF BOOKS AND PUBLICATIONS RELATED TO ART, ARCHITECTURE AND TRAVEL.

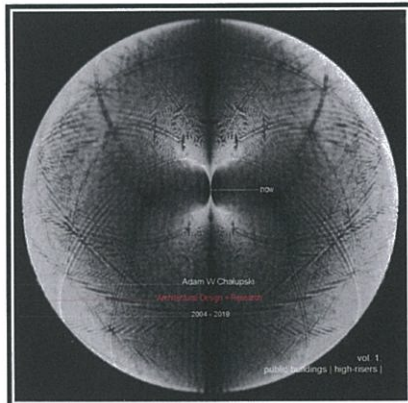
THIS IS THE FIRST PART OF A THREE-VOLUME PORTFOLIO WITH PROJECTS, REALIZATIONS AND RESEARCH CREATED BY POLISH ARCHITECT ADAM W. CHAŁUPSKI IN COLLABORATION OR INDIVIDUALLY IN EUROPE, ASIA AND AFRICA.

COLLECTION WAS CREATED IN ORDER TO ESTABLISH COMMUNICATION BETWEEN THE ARCHITECT AND PROFESSIONALS SEEKING COOPERATION, THANKS TO WHICH THEY CAN ENRICH THEIR OWN DESIGN FACILITIES AND CURRICULUM. THE FIRST VOLUME IS DEVOTED TO THE ARCHITECTURE OF PUBLIC BUILDINGS AND HIGH-RISER OBJECTS IN THE CONTEXT OF THE DESIGN PROCESS, METHODOLOGY AND TOOLS.

EACH OF THE PRESENTED PROJECTS IS ACCOMPANIED BY A GRAPHIC NARRATIVE WHOSE SCHEMES LEAD STEP BY STEP THROUGH THE SUBSEQUENT STAGES OF ARCHITECTURAL DESIGN. THE DEGREE OF INVOLVEMENT OF THE ARCHITECT IN THE CREATIVE PROCESS, SPECIFIC TASKS AND RESPONSIBILITIES ENTRUSTED TO HIM ARE INCLUDED IN THE TABLE THAT APPEARS NEXT TO EACH PROJECT.

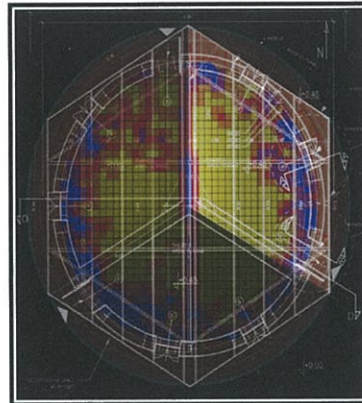
THE SECOND VOLUME IS A COMPILATION OF CONCEPTS, DESIGNS AND IMPLEMENTATION OF SMALL ARCHITECTURE, GRASS-ROOTS INITIATIVES AND ARCHITECTURAL POST-CATACLISMIC CAMPAIGNS. THE THIRD VOLUME INCLUDES PROJECTS, STUDIES AND INITIATIVES ON A SCALE CORRESPONDING TO URBAN, SPATIAL AND REGIONAL PROJECTS.

vol. 1:



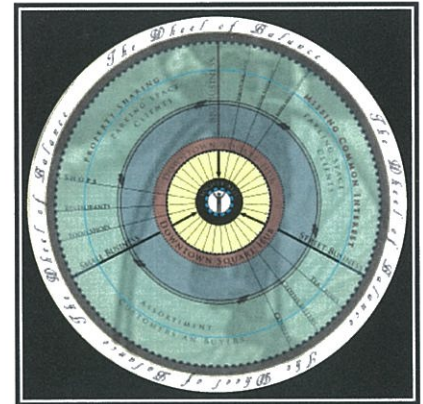
public buildings | high-risers |

vol. 2:



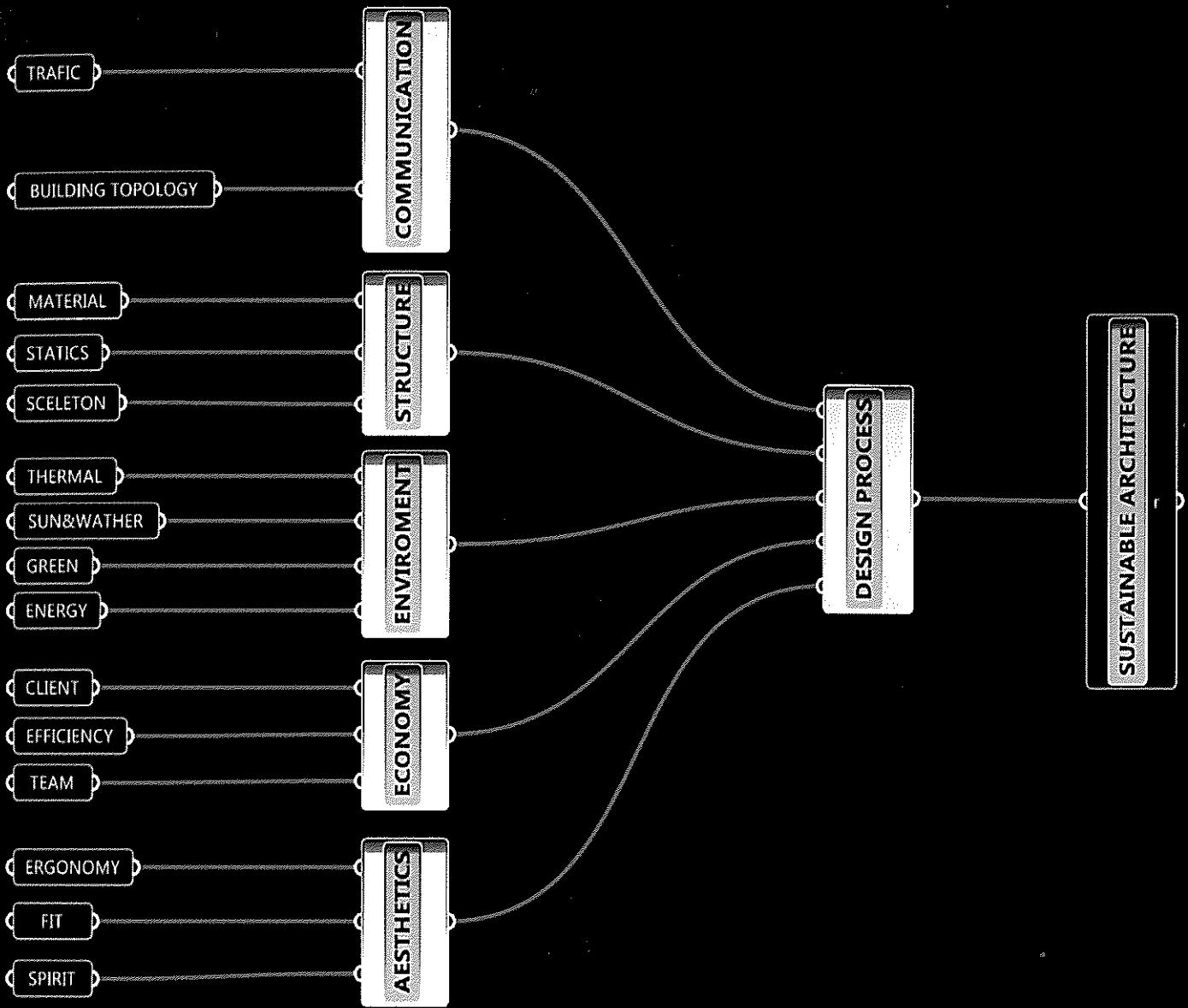
small architecture | grass-roots | post-cata |

vol. 3:



urban | spatial | regional

# DESIGN SCHEME







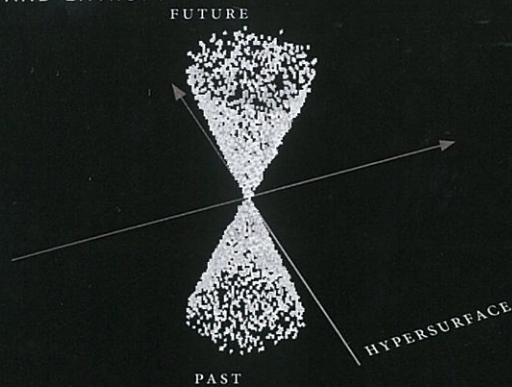
## PHILOSOPHY

AMONG ALL OTHERS, THE MOST BEAUTIFUL AND LOGICAL ARE **MATHEMATICS** AND **PHYSIC**. THE FIRST ONE IS TOO PERFECT FOR FULL DESCRIPTION OF ALL PROCESSES OCCURRING IN THE WORLD OF PHYSICS BUT THEY BOTH TOGETHER CLOSING OUR KNOWLEDGE IN THE PERFECT BRACKETS. **TOPOLOGY** IS A RELATIVELY NEW BRANCH OF SCIENCE WHICH GREW OUT FROM THE METAMATHEMATICAL FIELD IN ORDER TO HELP DESCRIBE GENERAL SHAPE OF UNIVERSE. BUT IN HUMAN SCALE TOPOLOGY IS A GREAT TOOL WHICH MAKE OUR LIVE EASIER. **ARCHITECTURE** IS A FIELD WHERE HUMAN SPIRIT MEETS WITH PHYSICAL REALITY. THE EFFECT OF THAT COLLISION SHOWS UP AS AN EVOLUTION OF HUMAN BODY AND HIS ENVIRONMENT. BY UNDERSTANDING THE SHAPE OF NATURE DESIGNER IS ABLE TO CREATE EFFICIENT AND SUSTAINABLE WRAPPING FOR HUMAN SOUL. **SCRIPT** IS A UNIVERSAL DESIGN TOOL ENABLING US TO CONTROL THE FORM AND PROPERTIES OF A BUILDING, WITH THE CONSIDERATION OF ITS PARAMETERS CHANGING DURING A DESIGN PROCESS. **LIGHT SCRIPT** DEFINITION CONTAINS ALL NECESSARY INFORMATION ABOUT THE BUILDING FORM AND ITS PROPERTIES SIMILAR TO A DNA CODE. **NON-LINEAR TRANSITION** AND ITS SPECIAL CASE - A RANDOM GRADIENT - IS A REPRESENTATION OF THE CONVERGING FORCES OF THE UNIVERSE. **NON-LINEARITY** OF THE UNIVERSE CAN BE OBSERVED ONLY IN THE SCALES CLOSE TO THE LENGTHS  $l_p = 1.616199 \text{ PLANCK} \times 10$  TO THE POWER OF  $-35$  METERS - FAR TOO SMALL FOR THE HUMAN EYE. GIVEN THE SCALE IN WHICH THE HUMANITY EXISTS, IT CAN BE EASILY ASSUMED THAT THE WORLD IS OF A LINEAR NATURE. THE LANGUAGE OF THE PLANCK SCALE IS MAINLY BASED ON A FUZZY LOGIC AND THEREFORE TRANSITIONS BETWEEN EXTREMES CAN BE EXPRESSED THROUGH A RANDOM GRADIENT.



# SPACE FOR ARCHITECTURE

TIME AND ENTROPY



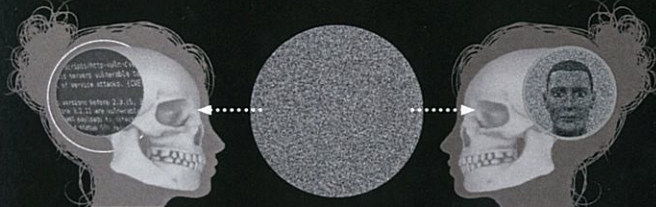
TIME CONE USES ENTROPY AS ARROW OF TIME

CONSCIOUSNESS AND CHAOS

LOGICAL INTERPRETATION

CHAOS

ABSTRACT INTERPRETATION

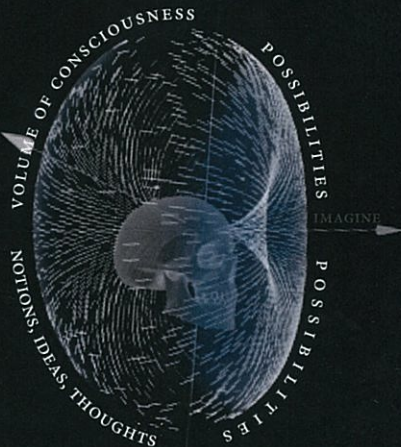
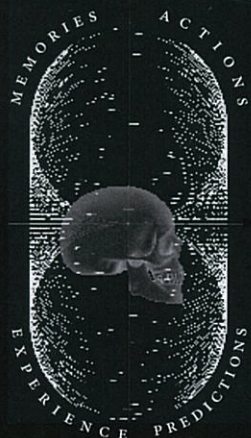


SYNTROPY

SYNTROPY

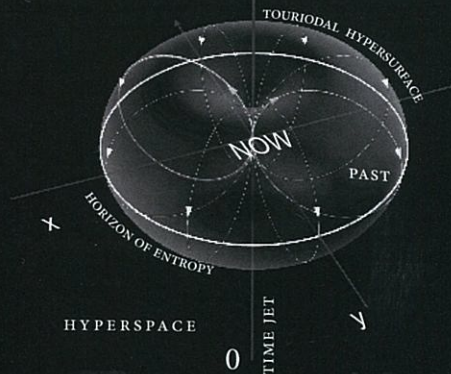
PATERNICITY IS A TENDENCY OF FINDING REGULAR PATERNS IN CHAOS

SPACE OF CONSCIOUSNESS



CONSCIOUSNESS USES MEMORY TO CONSTRUCT PREDICTED MODEL OF THE FUTURE

∞



HYPERSPACE

TIME JET

LOOPED ENTROPY USES TOURUS INSTEAD OF CONES

WHAT'S 'NOW' ?

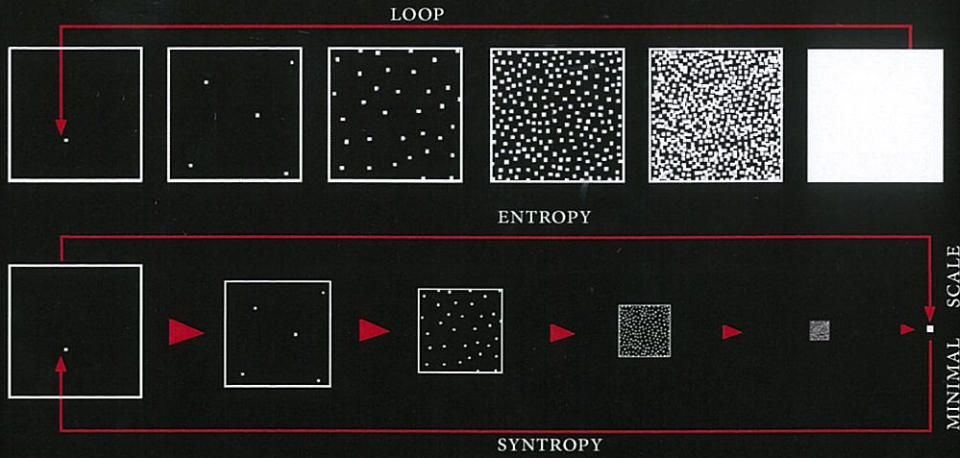


DURATION OF 'NOW' IS PROPORTIONAL TO CAPACITY OF CONSCIOUSNESS



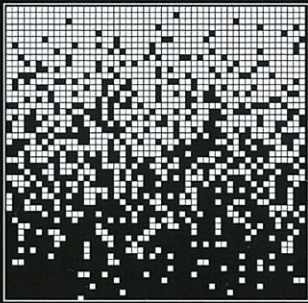


# ENTROPY VS SYNTROPY

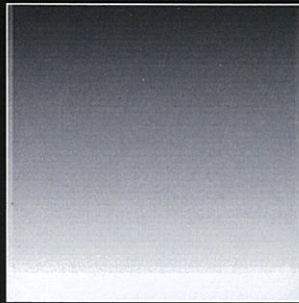


FULL CYCLE OF ENTROPY CHANGE FROM 0 TO 1 AND BACK AGAIN

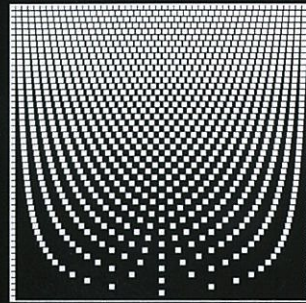
# TYOLOGY OF DICHOTOMIC TRANSITIONS



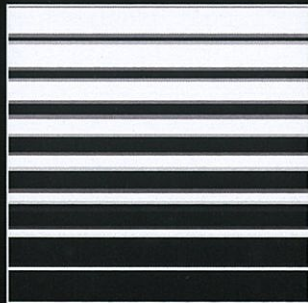
RANDOM



LINEAR



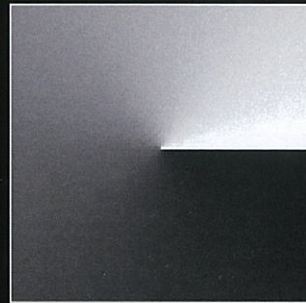
NON-LINEAR



ONE-DIMENSIONAL



SOLID



TEMPORAL

# PRACTICAL AP

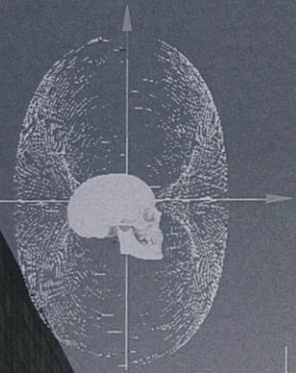


THE STAR PARK LIFE TV PRODUCTION CENT



LICATION

“COGITO ERGO SUM”  
*DESCARTES*





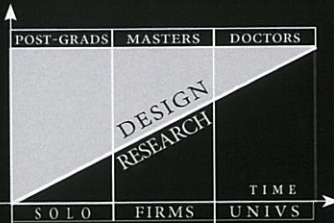
# CUTTING REALITY WITH "VS"

"SYSTEMATIC INQUIRY DIRECTED TOWARD THE CREATION OF KNOWLEDGE."  
JAMES SNYDER

"COURSES OF ACTION AIMED AT CHANGING EXISTING SITUATIONS INTO PREFERRED ONES."  
HERBERT SIMON

## RESEARCH VS DESIGN

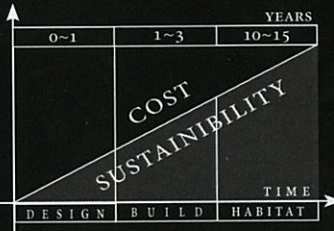
DESIGN VS RESEARCH



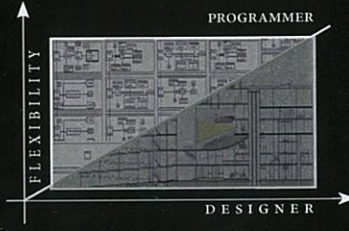
MANUAL VS PARAMETRIC



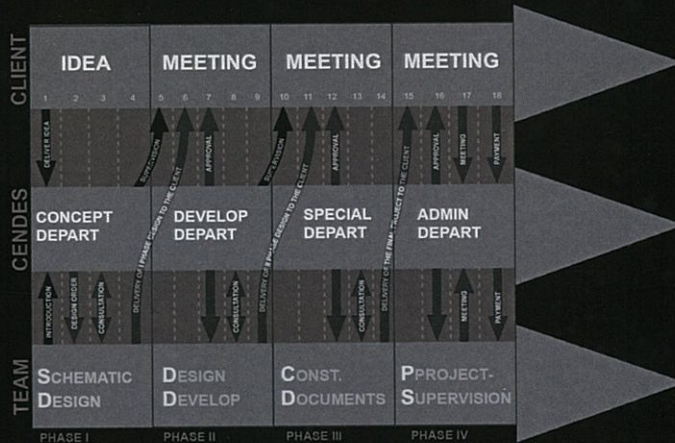
LEED VS COSTS



PROGRAMMER VS DESIGNER



SYSTEM OF COMMUNICATION



# THE STAR PARK

STAR PARK IS A PROJECT OF ONE OF THE LARGEST FILM PRODUCTION COMPLEXES IN CHINA, AND IS LOCATED IN THE SOUTHERN PART OF BEIJING. THE FIRST PHASE OF THE PROJECT WILL BE COMPLETED IN MID 2014 AND INTENDS TO ESTABLISH THREE STUDIOS, OFFICES AND SHOPPING DISTRICT.

PROJECT 1-TH PRICE OF THE OPEN COMPETITION  
COLLABORATION WITH CENDES ARCHITECTURAL COMPANY

PHASE 1 - GFA: 184 000 M<sup>2</sup>

PHASE 2 - GFA: 243 000 M<sup>2</sup>

THIS KIND OF TABLE DESCRIBES THE LEVEL OF INVOLVEMENT AND RESPONSIBILITIES UNDERTAKEN BY AN ARCHITECT IN EACH OF THE PROJECT THROUGHOUT THIS BOOKLET

YEAR: 2012 - 2013	CONSTRUCTION ADMIN
ROLE: SENIOR ARCHITECT	CONSTRUCTION BIDDING
ENGAGEMENT: BASIC	CONSTRUCTION PHOS
MID	DESIGN DEVELOPMENT
FULL	SCHEMATIC DESIGN
	CONCEPTUAL DESIGN
ACADEMIC ASSESSMENT	
PROGRAM SCHEMES	
PARAMETRIC URBAN DESIGN	
SITE PLAN CONCEPTS	
MASSING CALC	
LEED SOLUTIONS	
ANALYSIS/DIAG	
CLIMATE STUDIES	
GENERAL DESIGN	
FACADE DESIGN	
INTERIOR DESIGN	
2D/3D VISUALIS	
PRESENTATIONS	
3D PRINT/MODEL	
CLIENTS PRESEN	
MARKETING OPTIMIZATIONS	
MATERIALS	
PROTOTYPING	
DETAIL DRAWINGS	
CONST. DRAWINGS	
SITE OVERVIEW	
TEAM LEADING	
ADMINISTRATION	
EVALUATION	



NATURE MADE US SYNTROPIC SO THAT WE  
MAY KEEP THE UNIVERSE REGENERATIVE.

*R. BUCKMINSTER FULLER*

NON-LINEAR  
TRANSITION

TRANSITION





# SYSTEMS OF INQUIRY

*QUANTITATIVE RESEARCH* ASSUMES AN OBJECTIVE REALITY AND A VIEW OF THE RESEARCHER AS INDEPENDENT OF THE SUBJECT OF INQUIRY.

*QUALITATIVE RESEARCH* ASSUMES A SUBJECTIVE REALITY AND A VIEW OF THE RESEARCHER AS INTERACTIVE WITH THE SUBJECT OF INQUIRY.

*ONTOLOGY* ASKS WHAT IS THE NATURE OF REALITY? ASSUME THE EXISTENCE OF A REALITY THAT CAN BE OBJECTIVELY DESCRIBED OR MEASURED. [GROAT, WANG]



Reality is *OBJECTIVE* AND SINGULAR, APART FROM THE RESEARCHER.



Reality is *SUBJECTIVE* AND MULTIPLE AS SEEN BY PARTICIPANTS IN A STUDY.

*EPISTEMOLOGY* IS THE INVESTIGATION OF WHAT DISTINGUISHES JUSTIFIED BELIEF FROM OPINION. [WIKI] WHAT IS THE RELATIONSHIP OF THE RESEARCHER TO THAT BEING RESEARCHED? [GROAT, WANG]

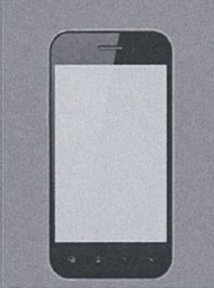


RESEARCHER IS *INDEPENDENT* FROM THAT BEING RESEARCHED.



RESEARCHER *INTERACTS* WITH THAT BEING RESEARCHED.

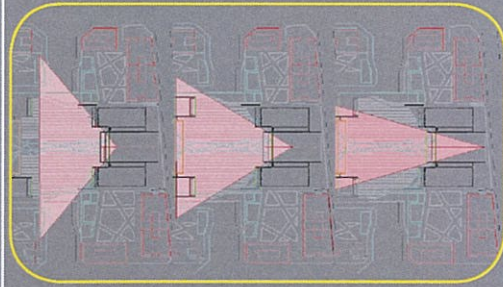
*METHODOLOGY* - WHAT IS THE PROCESS OF RESEARCH? [GROAT, WANG]



*DEDUCTIVE PROCESS:* CAUSE AND EFFECT.



*INDUCTIVE PROCESS:* MUTUAL SIMULTANEOUS SHAPING OF FACTORS.

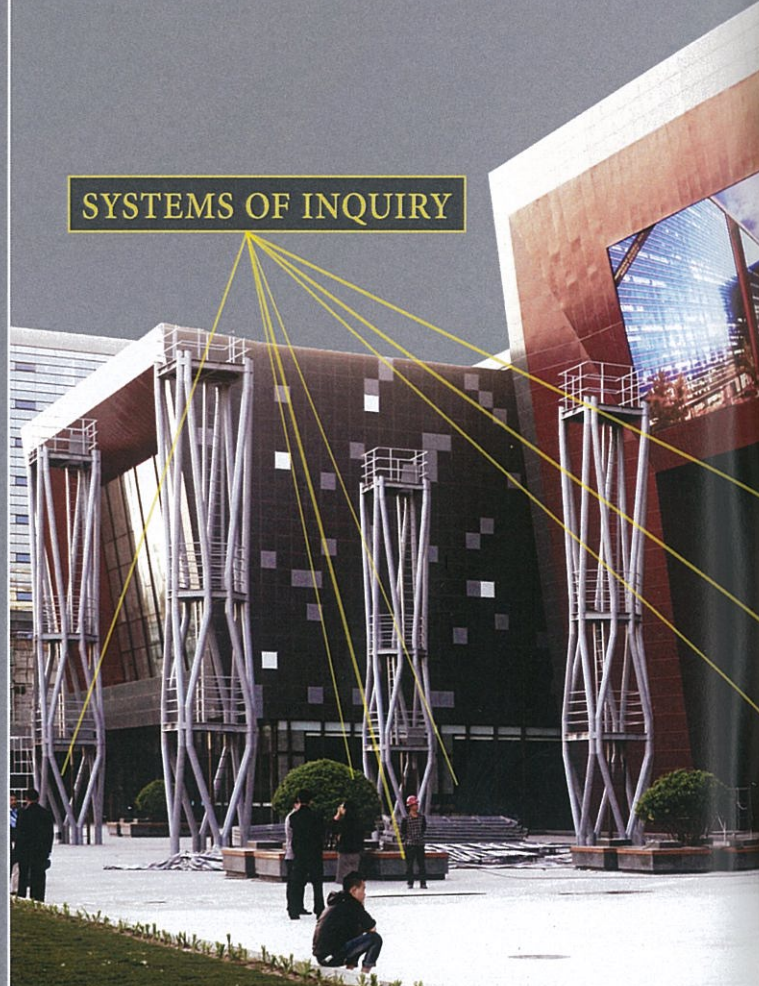


LENS ANGEL STUDY



LED VISIBILITY

## SYSTEMS OF INQUIRY







ANALYSIS

TROMBE WALL INDOOR/OUTDOOR STUDY

## ECONOMY

TO ENSURE THE FINANCIAL SUSTAINABILITY OF THE INVESTMENT THE A CONGLOMERATE OF OFFICES, SURROUNDED BY COMMERCIAL SERVICES, WILL SERVE AS AN ECONOMIC ENGINE. IMPLEMENTATION OF THE SECOND PHASE OF THE PROJECT DEPENDS ON THE EFFICIENCY OF THE FIRST PART OF THE FOUNDATION AS MUCH AS ON DECISIONS OF LOCAL AUTHORITIES.

THE USE OF TOOLS TO SIMULATE THE WEATHER CONDITIONS MAKE POSSIBLE IMPROVEMENT OF THE LEED PARAMETERS. IN ADDITION TO THE STANDARD CALCULATION OF THE INTENSITY OF LIGHT AROUND THE BUILDING, PROJECT INVOLVES THE CREATION OF THERMAL WALLS TO LESSEN THE ENERGY LOSS THROUGHOUT THE YEAR. THE USE OF WEATHER STIMULATING TOOLS HAS IMPROVED THE LEED PARAMETERS OF THE WHOLE FILMING COMPLEX.. THE USE OF TOOLS TO SIMULATE THE WEATHER CONDITIONS MAKE POSSIBLE IMPROVEMENT OF THE LEED PARAMETERS. IN ADDITION TO THE STANDARD CALCULATION OF THE INTENSITY OF LIGHT AROUND THE BUILDING, PROJECT INVOLVES THE CREATION OF THERMAL WALLS TO LESSEN THE ENERGY LOSS THROUGHOUT THE YEAR. THE USE OF WEATHER STIMULATING TOOLS HAS IMPROVED THE LEED PARAMETERS OF THE WHOLE FILMING COMPLEX.



# CULTURAL CENTER

## DAQIUZHANG CULTURAL CENTRE

A PUBLIC BUILDING IS TO BE CREATED IN THE NEW PART OF THE CITY. THE FACILITY IS LOCATED ON A SQUARE WITH DIMENSIONS OF 180X400 M IN FRONT OF THE CITY GOVERNMENT BUILDING. BUILDING IS TO BE A FORM OF EXPRESSION OF RESPECT FOR TRADITIONS, EMPHASIZING THE SIZE AND HISTORY OF THE FAMOUS CITY IN CHINA.

PROPOSAL FOR THE LOCAL GOVERNMENT  
COLLABORATION WITH HAO/ARCHILAND  
GFA: 20 000 M<sup>2</sup>

	CONSTRUCTION ADMIN	CONSTRUCTION BIDDING	CONSTRUCTION DOCS	DESIGN DEVELOPMENT	SCHEMATIC DESIGN	CONCEPTUAL DESIGN
YEAR: 2010 - 2011						
ROLE: ARCHITECT						
ENGAGEMENT: BASIC						
MID						
FULL						
RESEARCH						
ASSESSMENT						
PROGRAM						
SCHEMES						
PARAMETRIC						
URBAN DESIGN						
SITE PLAN						
CONCEPTS						
MASSING CALC						
LEED SOLUTIONS						
ANALYSIS/DIAGR						
CLIMATE STUDIES						
GENERAL DESIGN						
FACADE DESIGN						
INTERIOR DESIGN						
2D/3D VISUALIS						
PRESENTATIONS						
3D PRINT/MODEL						
CLIENTS PRESEN						
MARKETING						
OPTIMIZATIONS						
MATERIALS						
COST ESTIMATE						
DETAIL DRAWINGS						
CONST. DRAWINGS						
SITE OVERVIEW						
TEAM LEADING						
ADMINISTRATION						
EVALUATION						

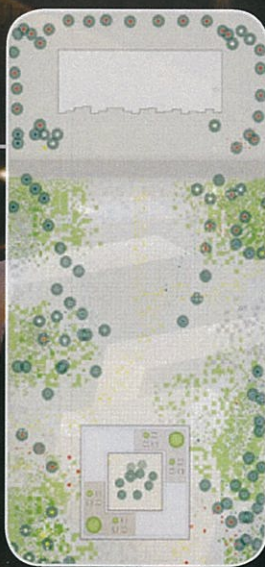


"SMOOTH TRANSITION BETWEEN BUILDING AND NATURE"

TOYO ITO



RANDOM GRADIENT



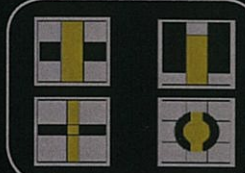
SITEPLAN

# STRATEGY AND TACTICS

PRIMARY GENERATOR IN THE PROCESS OF DESIGN USES SELECTION OF GUIDING PRINCIPLES WHICH NARROWING DOWN THE SPECTRUM OF OUTCOMES.



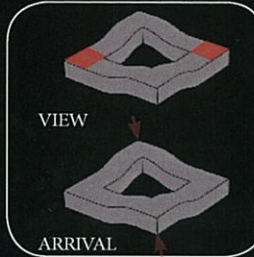
URBAN AXIS VS BUILDING



BUILDING VS TRAFFIC

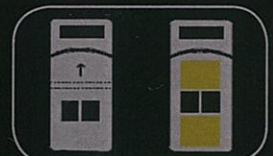


FORM FINDING

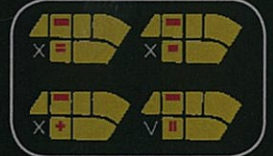


VIEW

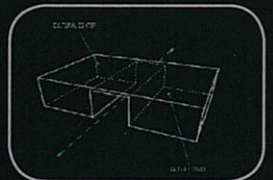
ARRIVAL RESULT



URBAN INTEGRATION



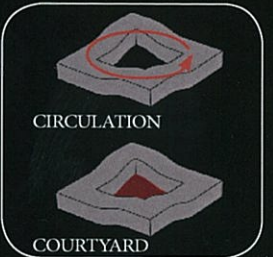
FORM SELECTION



BEST OPTION



FORM FINDING

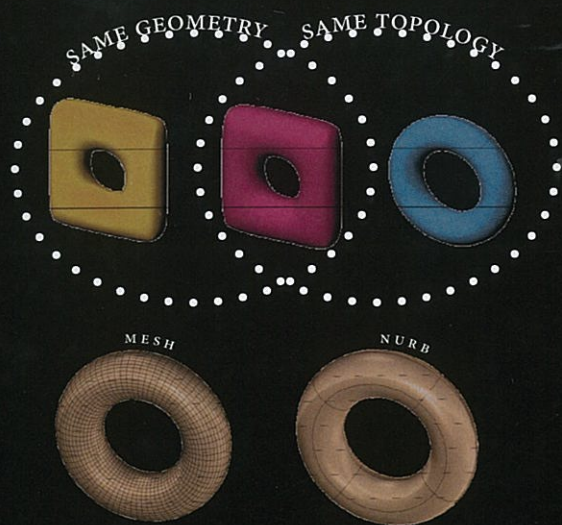


CIRCULATION

COURTYARD



## TOPOLOGY VS GEOMETRY



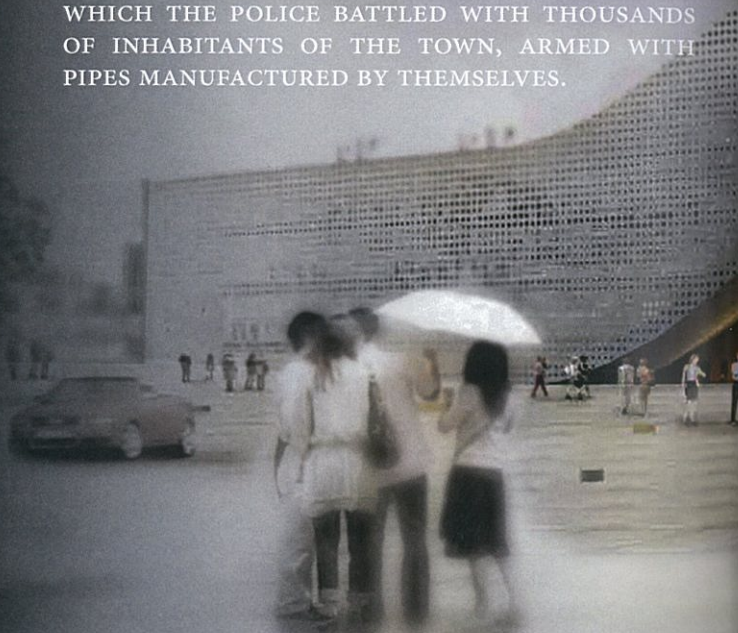
PHYSICAL MODEL

## HISTORICAL RESEARCH

THE FORM OF THE BUILDING CORRESPONDS TO THE TRADITIONAL CHINESE COURTYARD HOUSE CALLED SI HE YUAN. A COURTYARD BRIDGE CONNECTS BOTH ENTRANCES AND SERVE AS A PART OF THE GARDEN. AT THE TOP OF THE BUILDING ARE, THE ROOF IS COVERED WITH SOLAR PANELS.

HISTORY

MORE THEN THIRTY YEARS AGO A VILLAGE GREW TO BE A VERY IMPORTANT CENTRE FOR CHINA'S STEEL PRODUCTION. DAIQIUZHUANG, CALLED "THE WORLD'S BIGGEST VILLAGE", WAS THE FIRST PLACE IN THE POST-REVOLUTIONARY HISTORY OF CHINA, THAT THANKS TO THE ECONOMIC GROWTH, ACHIEVED SUCH A HIGH LEVEL OF INDEPENDENCE FROM THE CENTRAL GOVERNMENT. DUE TO YU ZUO MIN AND ENTHUSIASM OF HIS LOCAL FOLLOWERS DAIQIUZHUANG BECAME NOT ONLY A ROLE MODEL FOR LOCAL GOVERNMENTS BUT ALSO A SYMBOL OF AN OPPOSITION TO CHINA'S INTERNAL POLITICS. IN THE 80'S AS A RESULT OF POLITICAL STRUGGLE THERE WAS A REVOLT, IN WHICH THE POLICE BATTLED WITH THOUSANDS OF INHABITANTS OF THE TOWN, ARMED WITH PIPES MANUFACTURED BY THEMSELVES.



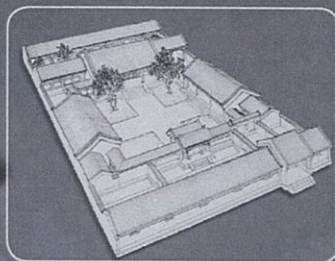




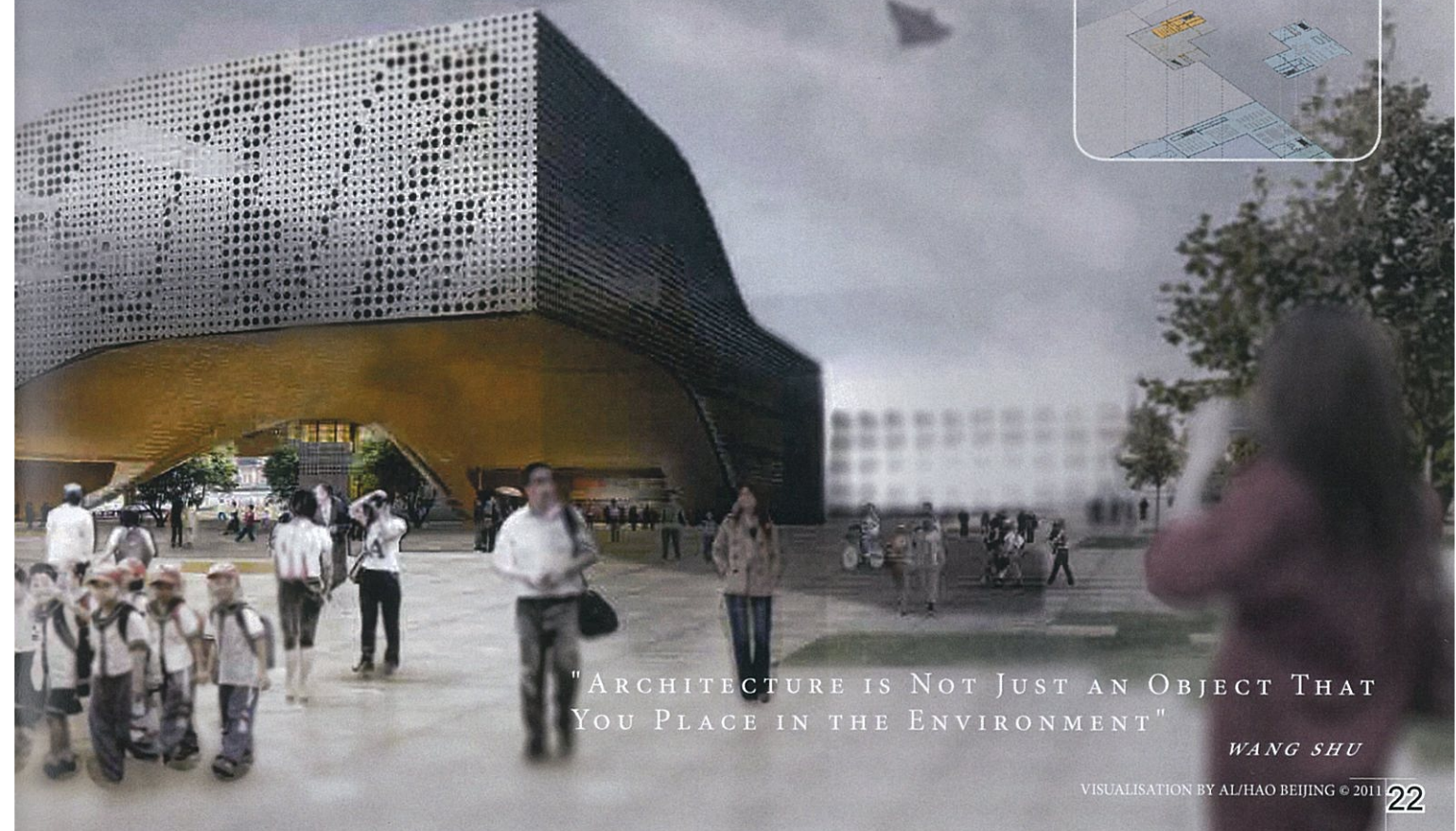
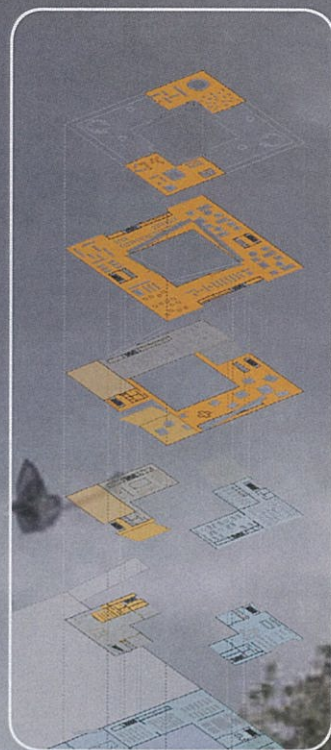
YU ZUO MIN



COURTYARD



SI HE YUAN



"ARCHITECTURE IS NOT JUST AN OBJECT THAT YOU PLACE IN THE ENVIRONMENT"

WANG SHU

VISUALISATION BY AL/HAO BEIJING © 2011



# CLUBHOUSE

“ARCHITECTURE STARTS WEHRE ENGINEERING ENDS”

WALTER GROPIUS

THE REAL ESTATE SALES CENTRE IN CHANGSHA CITY IS LOCATED NEAR THE MOUTH OF THE SO-CALLED “GREEN RIVER” THAT RUNS THROUGH THE PARK, HOUSING AN ENORMOUS RESIDENTIAL COMPLEX. THE BUILDING IS ADJACENT TO A SHOPPING MALL AND APARTMENT BUILDINGS ENTWINED ARE A LANDMARK OF THE ENTIRE CITY.

A BLOCK SET ON AN ARTIFICIAL WATER TANK IS THE RESULT OF RANDOMLY DEPLOYED BOXES SYMBOLIZING DIVERSITY. THE INTERIOR OF THE BUILDING IS AN OPEN SPACE THAT INTEGRATES VARIOUS FUNCTIONS AND AT THE SAME TIME GIVING THE POSSIBILITY OF FUTURE REARRANGEMENTS.

PROJECT EXECUTED FOR A PRIVATE DEVELOPMENT COMPANY IN CHANGSHA  
COLLABORATION WITH ARCHITECTURAL COMPANY ARCHILAND

GFA: 4 500 M2



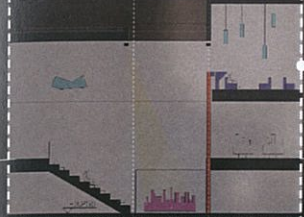
OPEN-SKY CINEMA



SITEPLAN

YEAR:	2010 - 2011
ROLE:	ARCHITECT
ENGAGEMENT:	BASIC ..... MID ..... FULL .....
RESEARCH	●
ASSESSMENT	●
PROGRAM	●
SCHEMES	●
PARAMETRIC	●
URBAN DESIGN	●
SITE PLAN	●
CONCEPTS	●
MASSING CALC	●
LEED SOLUTIONS	●
ANALYSIS/DIAGR	●
CLIMATE STUDIES	●
GENERAL DESIGN	●
FACADE DESIGN	●
INTERIOR DESIGN	●
2D/3D VISUALIS	●
PRESENTATIONS	●
3D PRINT/MODEL	●
CLIENTS PRESEN	●
MARKETING	●
OPTIMIZATIONS	●
MATERIALS	●
COST ESTIMATE	●
DETAIL DRAWINGS	●
CONST. DRAWINGS	●
SITE OVERVIEW	●
TEAM LEADING	●
ADMINISTRATION	●
EVALUATION	●






GALLERY DETILE SECTION A-A



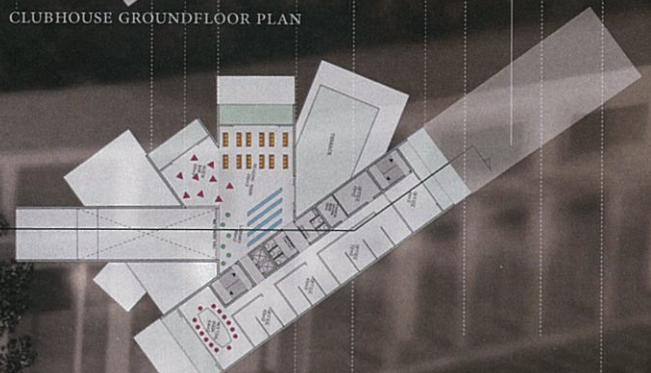
GALLERY DETILE PLAN




CLUBHOUSE SECTION A-A



CLUBHOUSE GROUND FLOOR PLAN



CLUBHOUSE 1ST FLOOR PLAN



CLUBHOUSE ENTRANCE

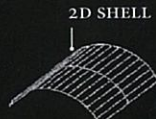


# COST VS GEOMETRY

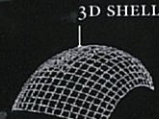
## TYPES OF WALL GEOMETRY CURVATURE



PLANE SHELL



2D SHELL



3D SHELL

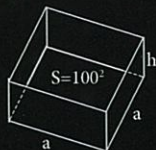
PRICE OF EACH WALL PER SQUARE METER

1\$

2\$

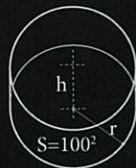
10\$

SAME BUILDING AREA WITH DIFFERENT GEOMETRIES VS WALL AREA



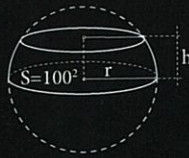
$S=100^2$   
 $a = 10 \text{ M}$   
 $h = 3 \text{ M}$   
 L - WALL OUTLINE  
 $L = 40 \text{ M}$   
 s - WALL AREA  
 $S = 120 \text{ M}^2$

PRICE:  
 $120 \text{ M}^2 \times 1 \$ = 120 \$$



$S=100^2$   
 $r = 5,65 \text{ M}$   
 $h = 3 \text{ M}$   
 L - WALL OUTLINE  
 $L = 35,5 \text{ M}$   
 s - WALL AREA  
 $S = 106,5 \text{ M}^2$

PRICE:  
 $106,5 \text{ M}^2 \times 2 \$ = 213 \$$



$S=100^2$   
 $r = 15,92 \text{ M}$   
 $h = 3 \text{ M}$   
 L - WALL OUTLINE  
 $L = 35,5 \text{ M}$   
 s - WALL AREA  
 $S = 106,4 \text{ M}^2$

PRICE:  
 $106,4 \text{ M}^2 \times 10 \$ = 1064 \$$

CONS AND PROS:

EXECUTION



EASY



CHALLENGING



ADVANCE

LAYOUT



EASY



ADVANCE



INEFFICIENT

PACKING



IDEAL



INEFFICIENT



WASTEFUL

ROTATIONS



INEFFICIENT



IDEAL



IDEAL

# RECREATION CENTER

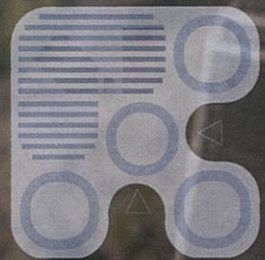
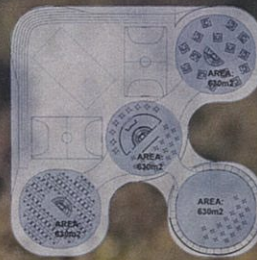
SPORTS AND RECREATION CENTRE SHOUHUANG  
 COMPLEMENTARY PROJECT OF AN OFFICE-APARTMENT COMPLEX ADJACENT TO CENTRAL RAILWAY MANAGEMENT OF SHOUHUANG.

THE MODERN FORM OF THE BUILDING IS BASED ON THE TRADITIONAL CHINESE LUOSHU MAGIC QUADRANT, AND REFERS TO THE EIGHT TYGRAMS ORIGINATING FROM THE ART OF FENG SHUI. IN THE OPEN SPACES OF THE BUILDING ARE ARRANGED THREE INSULATED CAPSULES WHICH CAN EXCHANGE HEAT WITH EACH OTHER. THE ACOUSTICALLY ISOLATED CORNER OF THE BUILDING IS A CONFERENCE HALL FOR 200 SEATS.

PROPOSAL TO THE BOARD OF SHOUHUANG  
 IN COLLABORATION WITH THE DESIGN CENDES  
 GFA: 10 000 M<sup>2</sup>







“PARAMETRICISM WILL IN THE END BE CHEAPER THAN  
MINIMALISM COULD EVER BE”

*PATRIK SCHUMACHER*

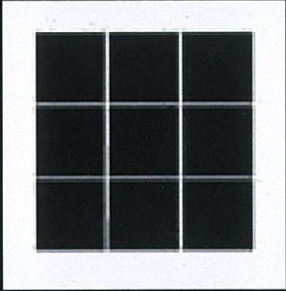
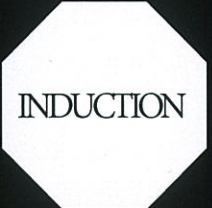
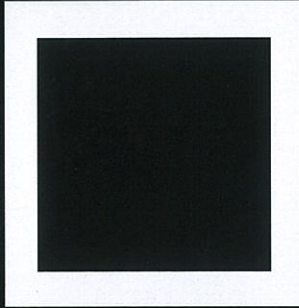
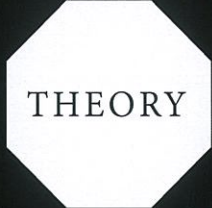
	CONSTRUCTION ADMIN	CONSTRUCTION FINING	CONSTRUCTION P.O.C	DESIGN DEVELOPMENT	SCHEMATIC DESIGN	CONCEPTUAL DESIGN
YEAR:						
2013						
ROLE:						
SENIOR ARCHITECT						
ENGAGEMENT:						
BASIC						
MID						
FULL						
RESEARCH						
ASSESSMENT						
PROGRAM						
SCHEMES						
PARAMETRIC						
URBAN DESIGN						
SITE PLAN						
CONCEPTS						
MASSING CALC						
LEED SOLUTIONS						
ANALYSIS/DIAGR						
CLIMATE STUDIES						
GENERAL DESIGN						
FACADE DESIGN						
INTERIOR DESIGN						
2D/3D VISUALS						
PRESENTATIONS						
3D PRINT/MODEL						
CLIENTS PRESEN						
MARKETING						
OPTIMIZATIONS						
MATERIALS						
COST ESTIMATE						
DETAIL DRAWINGS						
CONST. DRAWINGS						
SITE OVERVIEW						
TEAM LEADING						
ADMINISTRATION						
EVALUATION						



REQUIRMENTS

RESEARCH

LOGIC-IN-USE

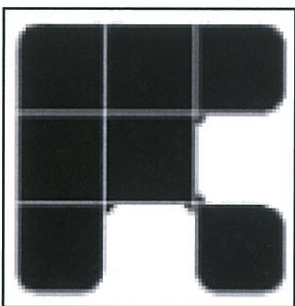
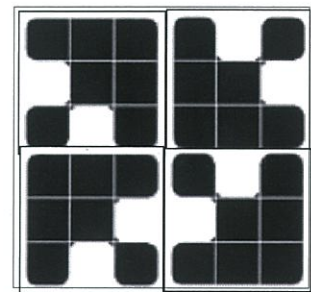
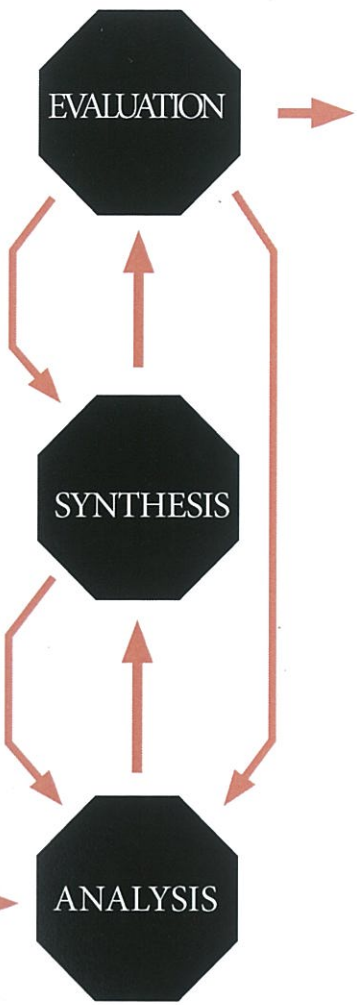




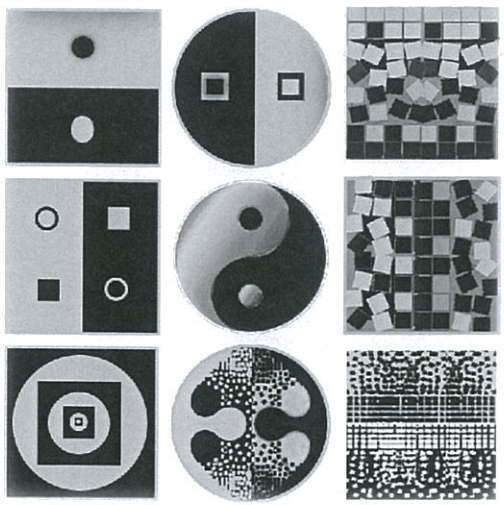
ANALYSIS-SYNTHESIS-EVALUATION

# DESIGN

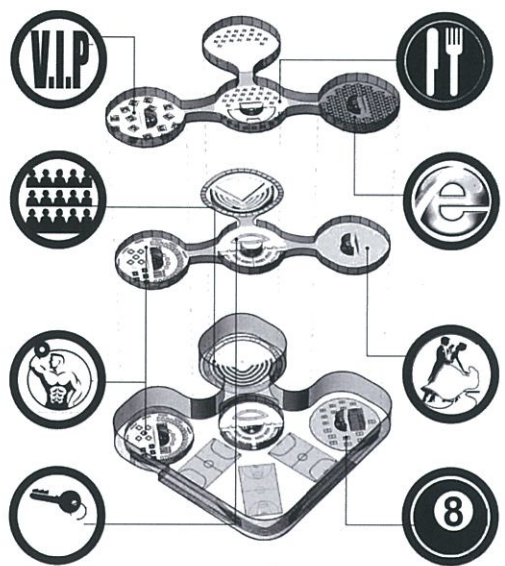
# SYSTEMATIC DESIGN



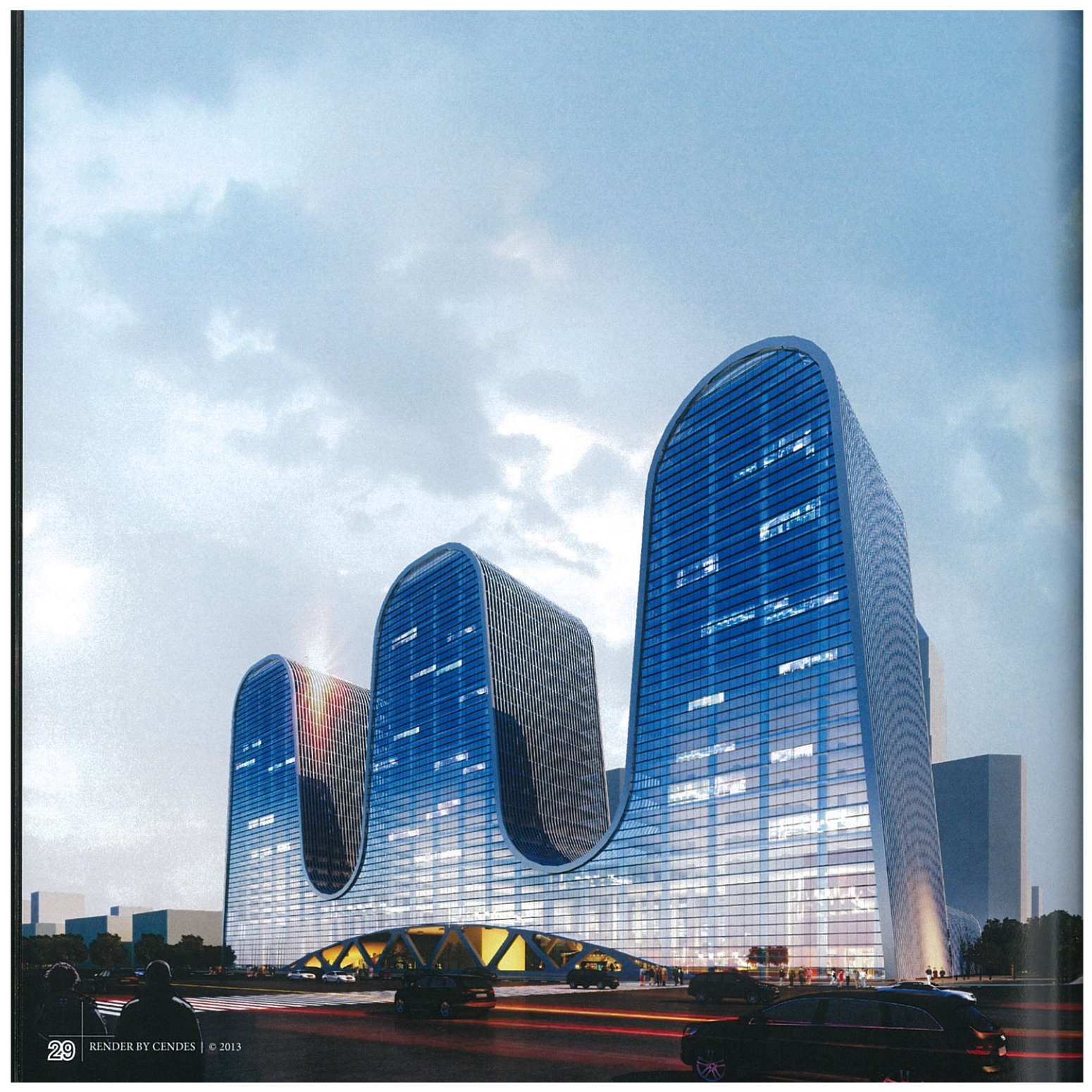
## IN YANG INVARIANTS



## FUNCTION DISTRIBUTION









# SHAN TOWERS

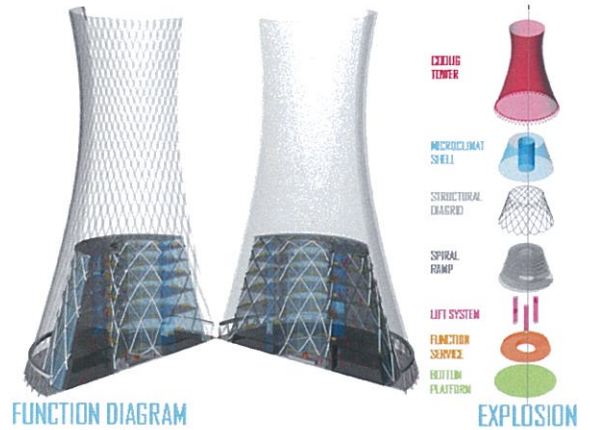
MULTIFUNCTIONAL COMPLEX OF TOWER BUILDINGS IN THE OLD CHINESE CAPITAL XI'AN IS AN EXTENSION OF ADJACENT RECENTLY COMPLETED EXHIBITION HALLS. WAVY FORM OF NEIGHBOURING BUILDINGS REFER TO THE RIVER THAT FLOWS ON THE SOUTH SIDE OF THE BUILDING. THREE WAVY TOWERS CORRESPOND TO THE MOUNTAINS SURROUNDING XI'AN, LINKING THE BUILDING FORM WITH A CHINESE CHARACTER [PHONETIC: SHĀN] 山 MEANING THE MOUNTAIN.

CONCEPT DESIGN FOR XI'AN GOV  
GFA: ~65 000M<sup>2</sup>

YEAR:	2012	CONSTRUCTION ADMIN
ROLE:	SENIOR ARCHITECT	CONSTRUCTION DOC'S
ENGAGEMENT:	BASIC	DESIGN DEVELOPMENT
	MID	SCHEMATIC DESIGN
	FULL	CONCEPTUAL DESIGN
RESEARCH ASSESSMENT PROGRAM SCHEMES	●●●●●	
PARAMETRIC URBAN DESIGN SITE PLAN CONCEPTS	●●●●●	
MASSING CALC LEED SOLUTIONS ANALYSIS/DIAGR	●●●●●	
CLIMATE STUDIES GENERAL DESIGN FACADE DESIGN	●●●●●	
INTERIOR DESIGN 2D/3D VISUALIS PRESENTATIONS	●●●●●	
3D PRINT/MODEL CLIENTS PRESEN MARKETING OPTIMIZATIONS	●●●●●	
MATERIALS COST ESTIMATE DETAIL DRAWINGS	●●●●●	
CONST. DRAWINGS SITE OVERVIEW	●●●●●	
TEAM LEADING ADMINISTRATION EVALUATION	●●●●●	



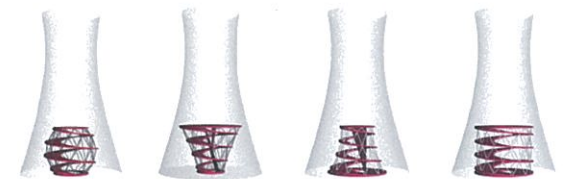
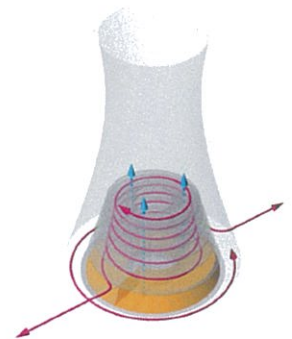
# ADAPTATION OF COOLING TOWERS



LUXURY  
REGULAR  
LARGE



FUNCTION DIAGRAM



VIEW	6300m <sup>2</sup>
EXTERNAL EXPL.	5200m <sup>2</sup>
INTERNAL EXPL.	3800m <sup>2</sup>
COMBINATION	5500m <sup>2</sup>
SERVICE	20 000m <sup>2</sup>
+	

AREAS




	SPACE	VIEW	ABILITY	DESIGN	LIGHT
●				✓	
○		✓			
○					✓
■	✓		✓		

ALTERNATIVES



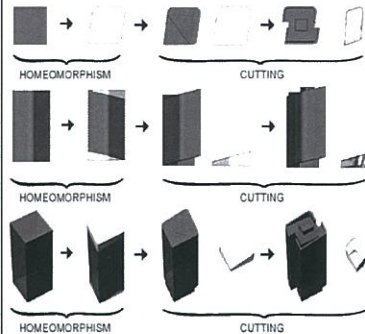
# VOLUME AND FACADE

USING GRADIENT IN FACADE DESIGN



**FORM FINDING**


**HOMEOMORPHISM AND CUTTING**



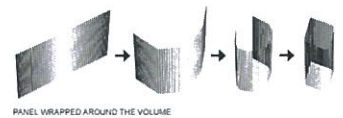
HOMEOMORPHISM      CUTTING

**FACADE SUN SOLUTION**

**SOLAR GRADIENT**



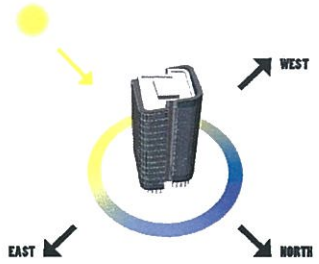
WRAPPING



PANEL WRAPPED AROUND THE VOLUME

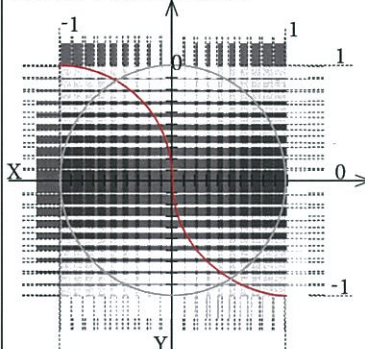
**ORIENTATION**

**EVEN LIGHT DISTRIBUTION**

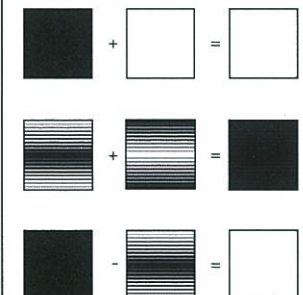


# LUMATIC GEOMETRY

**LUMA TRANSITION**

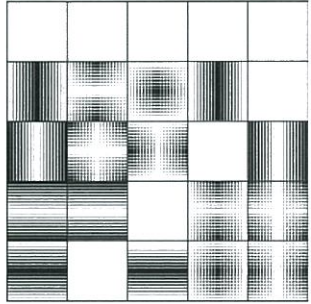


**LUMARITHMETIC**

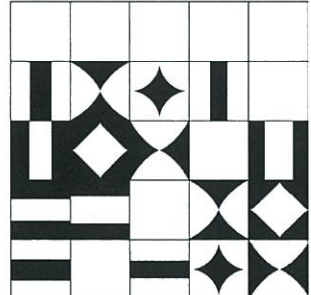


**MATRIX**

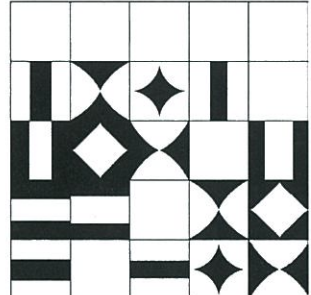
**NEGATIVE COMPONENTS**



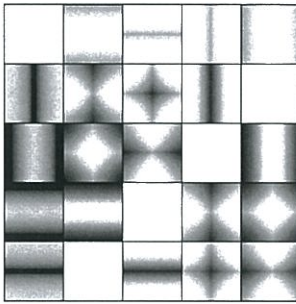
**POSITIVE COMPONENTS**



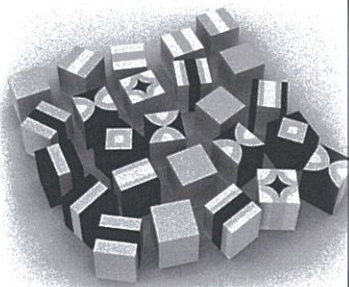
**SIMPLIFICATION**



**LINEAR RESULTS**



**SOLID RESULTS**







# PORCELAIN TOWER

JINGDEZHEN CITY IS FAMOUS FOR THE PRODUCTION OF CHINAWARE. THE CLIENT IS BIDDING FOR LICENCE TO BUY THE LAND IN ORDER TO LAUNCH THE CONSTRUCTION OF OFFICE-SHOPPING AREA. THE OFFICE TOWER FACADE CONSISTS OF SMOOTH TRANSITION BETWEEN SOLID WALL AND CURTAIN WALL WRAPPED AROUND THE VOLUME. THIS SOLUTION PROVIDES MORE LIGHT FROM NORTH SITE AND LESS FROM THE SOUTH. FORM OF THE NEIGHBOURING BUILDING EMERGES FROM THE CUT-OFF OF THE LOWER PART OF THE TOWER BUILDING.

1TH PHASE DESIGN FOR JINGDEZHEN DEVELOPMENT GROUP

GFA: 55 000 M<sup>2</sup>

	CONCEPTUAL DESIGN	SCHEMATIC DESIGN	DESIGN DEVELOPMENT	CONSTRUCTION BIDDING	CONSTRUCTION ADMIN
YEAR:	2012				
ROLE:	SENIOR ARCHITECT				
ENGAGEMENT:	BASIC	MID	FULL		
RESEARCH ASSESSMENT					
PROGRAM SCHEMES					
PARAMETRIC URBAN DESIGN					
SITE PLAN CONCEPTS					
MASSING CALC					
LEED SOLUTIONS					
ANALYSIS/DIAGR					
CLIMATE STUDIES					
GENERAL DESIGN					
FACADE DESIGN					
INTERIOR DESIGN					
2D/3D VISUALIS					
PRESENTATIONS					
3D PRINT/MODEL					
CLIENTS PRESEN					
MARKETING OPTIMIZATIONS					
MATERIALS COST ESTIMATE					
DETAIL DRAWINGS					
CONST. DRAWINGS					
SITE OVERVIEW					
TEAM LEADING					
ADMINISTRATION					
EVALUATION					

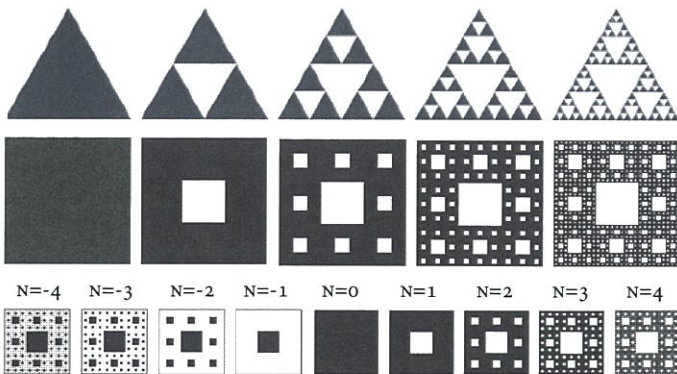


# BEGINING OF FRACTALES



ORIGINALLY CONSTRUCTED AS A CURVE, THIS IS ONE OF THE BASIC EXAMPLES OF SELF-SIMILAR SETS, I.E. IT IS A MATHEMATICALLY GENERATED PATTERN THAT CAN BE REPRODUCIBLE AT ANY MAGNIFICATION OR REDUCTION.

WACŁAW SIERPIŃSKI 1882 - 1969



N=-4 N=-3 N=-2 N=-1 N=0 N=1 N=2 N=3 N=4



# ARCHITECTURA FASCISTA

CLIENTS OF BoC HAVE ORDERED CONCEPT STUDIES BASED OF EUROPEAN TRADITIONS OF XX CENTURY'S ARCHITECTURE. 1ST ROUND LEADS US TO ARCHITECTURAL STYLE OF EUROPEAN FASCISTS.



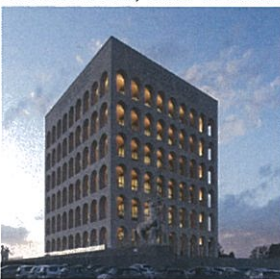
BoC Tower Concept



ALBERT SPEER, NAZI GERMANY



BoC Tower Concept



G. GUERRINI FASCIST ITALY

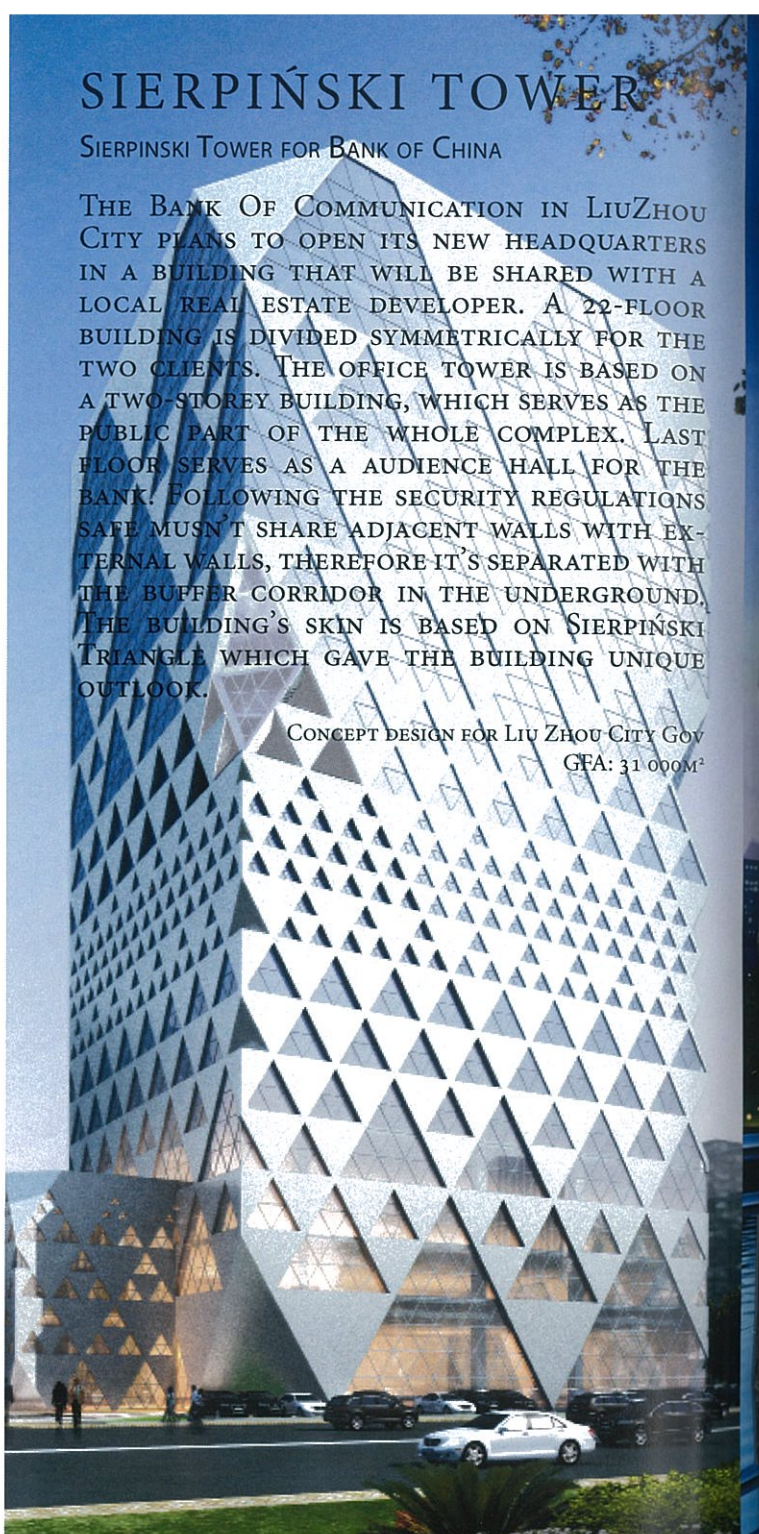
# SIERPIŃSKI TOWER

SIERPIŃSKI TOWER FOR BANK OF CHINA

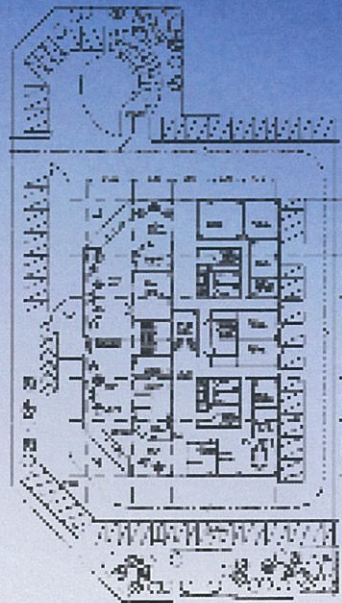
THE BANK OF COMMUNICATION IN LIUZHOU CITY PLANS TO OPEN ITS NEW HEADQUARTERS IN A BUILDING THAT WILL BE SHARED WITH A LOCAL REAL ESTATE DEVELOPER. A 22-FLOOR BUILDING IS DIVIDED SYMMETRICALLY FOR THE TWO CLIENTS. THE OFFICE TOWER IS BASED ON A TWO-STORY BUILDING, WHICH SERVES AS THE PUBLIC PART OF THE WHOLE COMPLEX. LAST FLOOR SERVES AS A AUDIENCE HALL FOR THE BANK. FOLLOWING THE SECURITY REGULATIONS SAFE MUSTN'T SHARE ADJACENT WALLS WITH EXTERNAL WALLS, THEREFORE IT'S SEPARATED WITH THE BUFFER CORRIDOR IN THE UNDERGROUND. THE BUILDING'S SKIN IS BASED ON SIERPIŃSKI TRIANGLE WHICH GAVE THE BUILDING UNIQUE OUTLOOK.

CONCEPT DESIGN FOR LIU ZHOU CITY GOV

GFA: 31 000m<sup>2</sup>







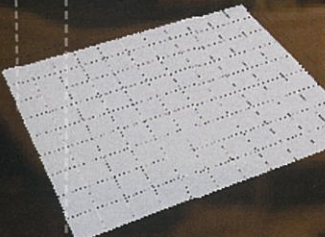
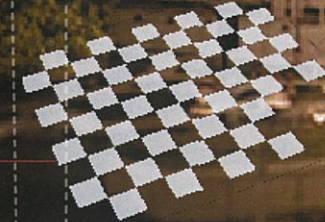
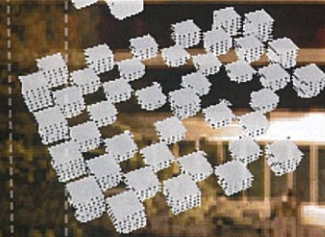
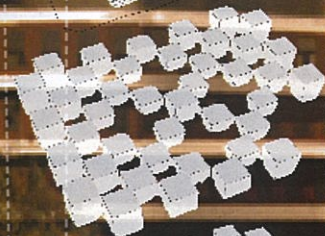
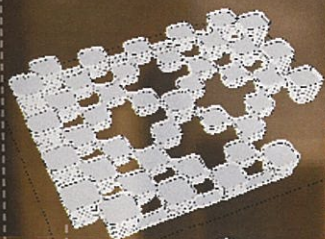
GROUND FLOOR PLAN

	CONCEPTUAL DESIGN	SCHEMATIC DESIGN	DESIGN DEVELOPMENT	CONSTRUCTION DOS	CONSTRUCTION BIDDING	CONSTRUCTION ADMIN
YEAR:						
2012						
ROLE:						
SENIOR ARCHITECT						
ENGAGEMENT:						
BASIC						
MID						
FULL						
RESEARCH ASSESSMENT						
PROGRAM SCHEMES						
PARAMETRIC URBAN DESIGN						
SITE PLAN CONCEPTS						
MASSING CALC LEED SOLUTIONS						
ANALYSIS/DIAGR CLIMATE STUDIES						
GENERAL DESIGN FACADE DESIGN						
INTERIOR DESIGN 2D/3D VISUALIS						
PRESENTATIONS 3D PRINT/MODEL						
CLIENTS PRESEN						
MARKETING OPTIMIZATIONS						
MATERIALS COST ESTIMATE						
DETAIL DRAWINGS CONST. DRAWINGS						
SITE OVERVIEW TEAM LEADING						
ADMINISTRATION EVALUATION						





FACADE VIEW



ROOF PERSPECTIVE

GENERATIVE DESIGN EXPLICIT HISTORY

RENDERS AND ILLUSTRATIONS BY ADAM W CHALUPSKI | © 2013



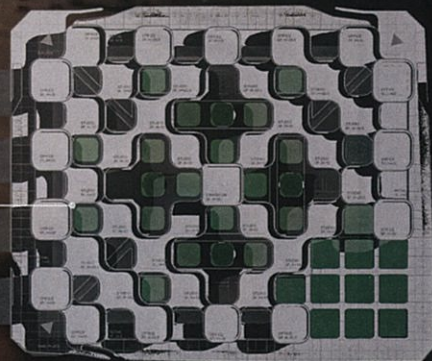
# ARTIST COMMUNITY

## DISSOLVED CHESS BOARD

CONTRACTED PROJECT KICK-OFF DESIGN FOR THE NEW ART DISTRICT IN SOUTH OF BEIJING. ART STUDIOS, GALLERIES AND WORKSPACES ARE LOCATED INSIDE THE OFFICES CIRCLE. IN THE HEART OF THE SITE THE MAIN BUILDING WITH EXHIBITION CENTRE WHICH SERVES AS A MEETING POINT. BRICK STYLE FACADE RECALLS 19TH CENTURY EUROPEAN INDUSTRIAL DISTRICTS.

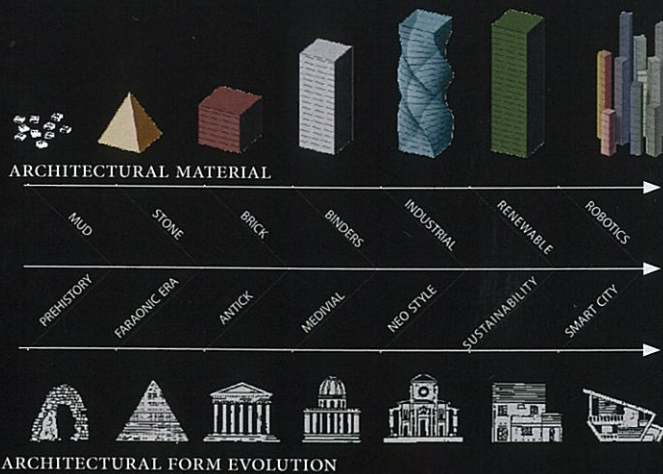
IDEA OF THE CHESS BOARD PATTERN EMERGES FROM REQUIREMENT OF BUILDING COVERAGE SET ON 50%. THE PROCESS OF DISSOLVING PROVIDES OPPORTUNITY OF SMOOTH LINKAGE OF ITS GEOMETRY AND ENDING UP WITH A SET OF ELEVATED BRIDGES.

CONTRACT PROJECT FOR XINGGUANG FILM INDUSTRY COMPANY IN COLLABORATION WITH CENDES OFFICE  
GFA: 155 000 M2



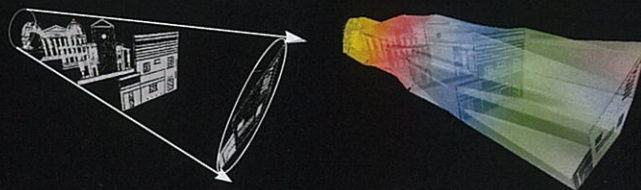
SITEPLAN

# ARCHITECTURE IN SPACETIME

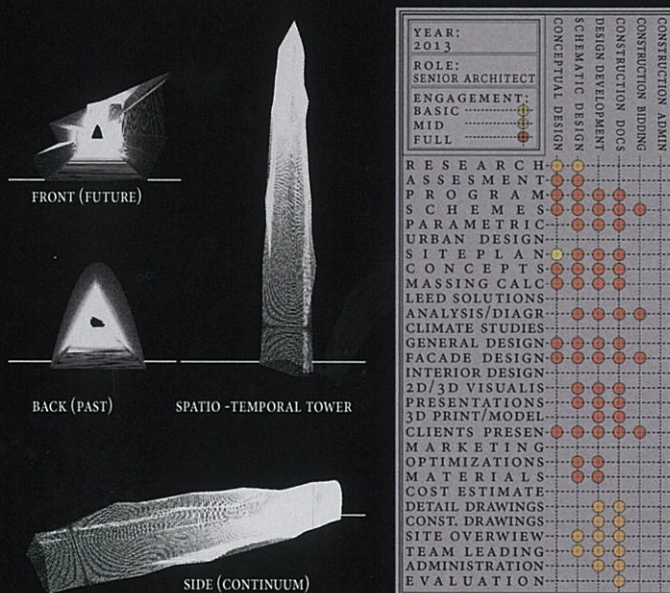


ARCHITECTURAL MATERIAL

ARCHITECTURAL FORM EVOLUTION



SPATIO-TEMPORAL REPRESENTATIONS OF ARCHITECTURAL FORM EVOLUTION



FRONT (FUTURE)

BACK (PAST)

SPATIO-TEMPORAL TOWER

SIDE (CONTINUUM)

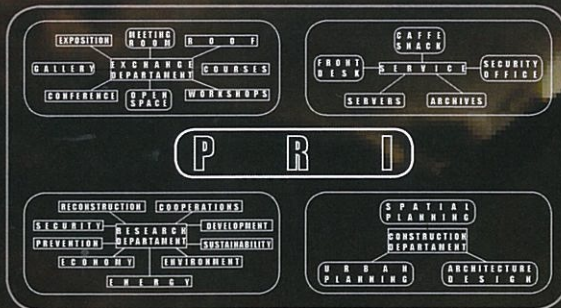


# POST-WAR RECONSTRUCTION CENTER

EVERY WAR WILL EVENTUALLY COME TO THE END. BY PROVIDING DOCUMENTS AND EVIDENCES FOR ECONOMIC BENEFITS AND INCENTIVES WE CAN CREATE STRONG IMPULSE TOWARDS WAR END. SPECIALISTS WORKING IN THE CENTER WILL MONITOR, RESEARCH AND PRODUCE STRONG EVIDENCES ABOUT ECONOMICAL AND HUMANITARIAN BENEFITS FOR WAR TO BE FINISH. CONSTRUCTION AND REAL ESTATE INDUSTRY IS WORTH 16.6 % OF GLOBAL GDP AND IT'S ONE OF THE TOP ON THE LIST. PRI COULD PROVIDE HOPE FOR MANY REFUGEES TO SAFELY COME BACK HOME ONE DAY.

PROJECT IS LOCATED AT THE SPOT OF STILL YET EXISTING CITY HOUSE WHERE ADOLF HITLER WAS BORN. WALLS ARE MADE IN RAMMED EARTH TECHNIQUE - ONE OF THE MOST PROMISING BUILDING METHOD FOR FUTURE URBAN INFRASTRUCTURE. FUNCTIONALITY PROVIDES VARIOUS OVERLAPING OFFICE AND EDUCATION ACTIVITIES INCLUDING LIBRARIES AND CINEMA.

WINNING COMPETITION FOR ICARCH  
AREA 4200 M<sup>2</sup>



FUNCTION DIAGRAM

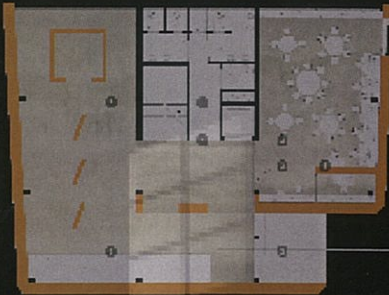
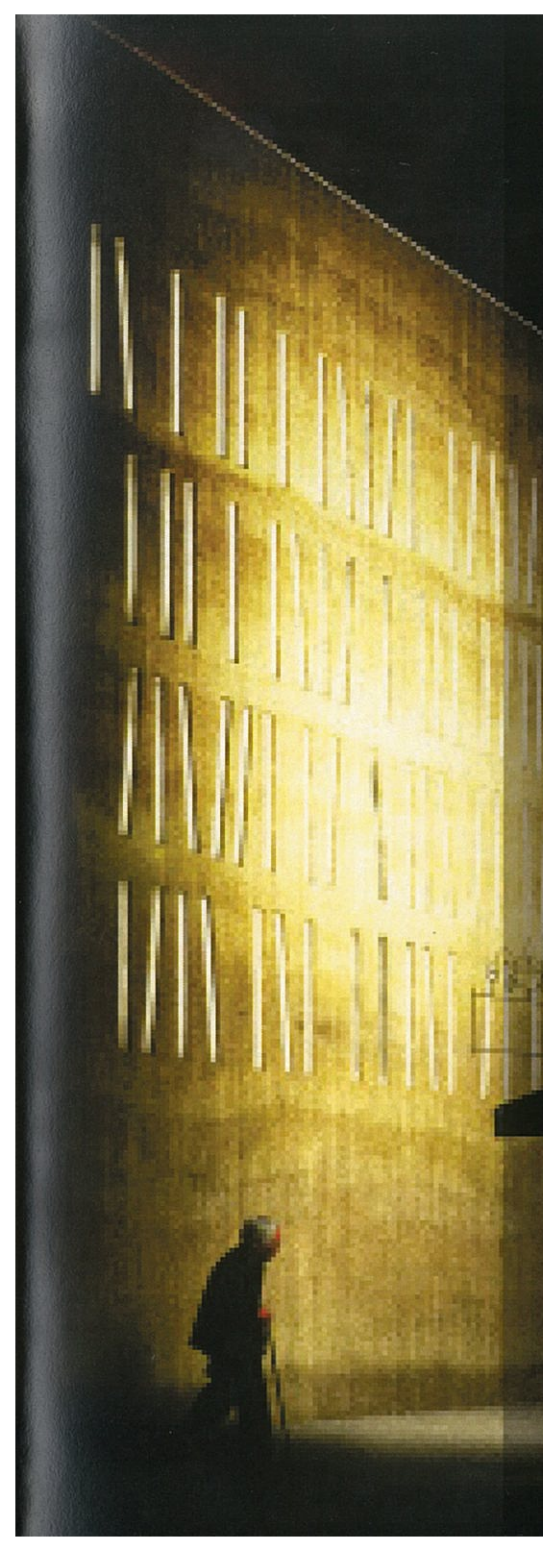


GLOBAL CONSTRUCTION MARKET

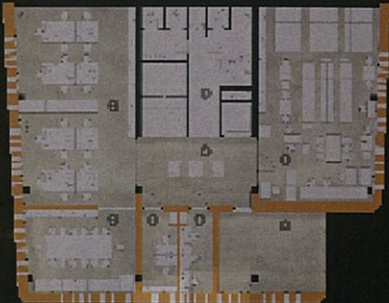
FOR PEACE, FREEDOM  
AND DEMOCRACY  
NEVER AGAIN FASCISM  
MILLIONS OF DEAD REMIND

INSCRIPTION ON THE STONE

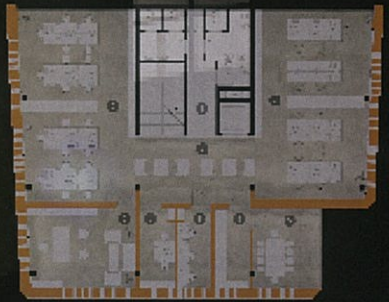




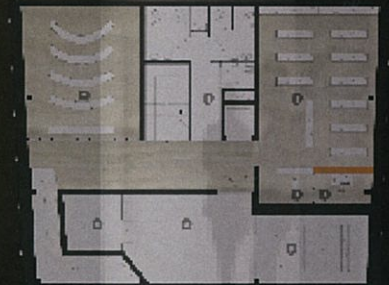
3TH FLOOR



2ND FLOOR



1ST FLOOR



GROUND FLOOR



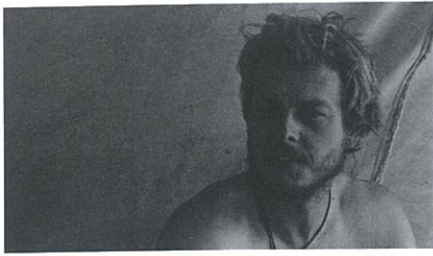
SECTION DIAGRAM



ADOLF HITLER'S BIRTH PLACE

	CONCEPTUAL DESIGN	SCHEMATIC DESIGN	DESIGN DEVELOPMENT	CONSTRUCTION DOCS	CONSTRUCTION BIDDING	CONSTRUCTION ADMIN
YEAR:						
2016						
ROLE:						
PRINCIPAL						
ENGAGEMENT:						
BASIC						
MID						
FULL						
RESEARCH						
ASSESSMENT						
PROGRAM						
SCHEMES						
PARAMETRIC						
URBAN DESIGN						
SITE PLAN						
CONCEPTS						
MASSING CALC						
LEED SOLUTIONS						
ANALYSIS/DIAGR						
CLIMATE STUDIES						
GENERAL DESIGN						
FACADE DESIGN						
INTERIOR DESIGN						
2D/3D VISUALIS						
PRESENTATIONS						
3D PRINT/MODEL						
CLIENTS PRESEN						
MARKETING						
OPTIMIZATIONS						
MATERIALS						
COST ESTIMATE						
DETAIL DRAWINGS						
CONST. DRAWINGS						
SITE OVERVIEW						
TEAM LEADING						
ADMINISTRATION						
EVALUATION						





ADAM W CHAŁUPSKI STUDIED ARCHITECTURE IN POLAND, SINCE 2005 HE HAS BEEN ASSOCIATED WITH VARIOUS COMPANIES AND EDUCATIONAL INSTITUTIONS IN EUROPE, ASIA AND AFRICA. HE IS THE AUTHOR OF BOOKS AND PUBLICATIONS RELATED TO ART, ARCHITECTURE AND TRAVEL. ADAM W CHAŁUPSKI STUDIED ARCHITECTURE IN POLAND, SINCE 2005 HE HAS BEEN ASSOCIATED WITH MANY COMPANIES AND EDUCATIONAL INSTITUTIONS IN EUROPE, ASIA AND AFRICA. HE IS THE AUTHOR OF BOOKS AND PUBLICATIONS RELATED TO ART, ARCHITECTURE AND TRAVEL.

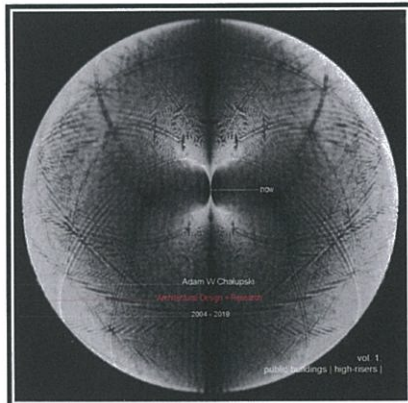
THIS IS THE FIRST PART OF A THREE-VOLUME PORTFOLIO WITH PROJECTS, REALIZATIONS AND RESEARCH CREATED BY POLISH ARCHITECT ADAM W. CHAŁUPSKI IN COLLABORATION OR INDIVIDUALLY IN EUROPE, ASIA AND AFRICA.

COLLECTION WAS CREATED IN ORDER TO ESTABLISH COMMUNICATION BETWEEN THE ARCHITECT AND PROFESSIONALS SEEKING COOPERATION, THANKS TO WHICH THEY CAN ENRICH THEIR OWN DESIGN FACILITIES AND CURRICULUM. THE FIRST VOLUME IS DEVOTED TO THE ARCHITECTURE OF PUBLIC BUILDINGS AND HIGH-RISER OBJECTS IN THE CONTEXT OF THE DESIGN PROCESS, METHODOLOGY AND TOOLS.

EACH OF THE PRESENTED PROJECTS IS ACCOMPANIED BY A GRAPHIC NARRATIVE WHOSE SCHEMES LEAD STEP BY STEP THROUGH THE SUBSEQUENT STAGES OF ARCHITECTURAL DESIGN. THE DEGREE OF INVOLVEMENT OF THE ARCHITECT IN THE CREATIVE PROCESS, SPECIFIC TASKS AND RESPONSIBILITIES ENTRUSTED TO HIM ARE INCLUDED IN THE TABLE THAT APPEARS NEXT TO EACH PROJECT.

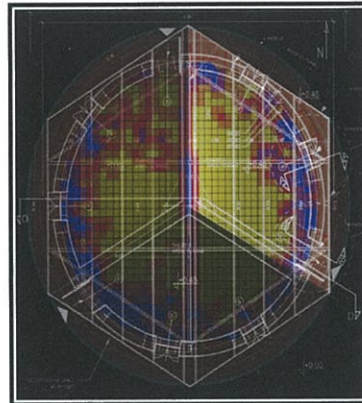
THE SECOND VOLUME IS A COMPILATION OF CONCEPTS, DESIGNS AND IMPLEMENTATION OF SMALL ARCHITECTURE, GRASS-ROOTS INITIATIVES AND ARCHITECTURAL POST-CATACLISMIC CAMPAIGNS. THE THIRD VOLUME INCLUDES PROJECTS, STUDIES AND INITIATIVES ON A SCALE CORRESPONDING TO URBAN, SPATIAL AND REGIONAL PROJECTS.

vol. 1:



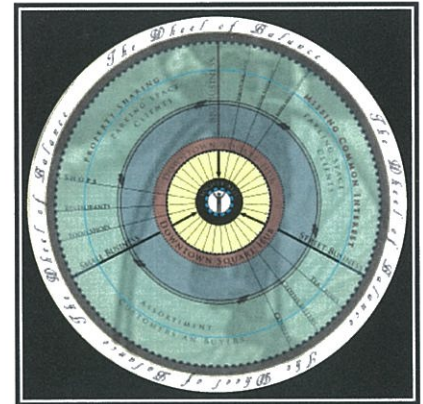
public buildings | high-risers |

vol. 2:



small architecture | grass-roots | post-cata |

vol. 3:



urban | spatial | regional